

Dear All Suppliers**Request of high-accuracy analysis data**

Dear Sirs, we hope this letter finds you and your company's growing success.

Thank you very much for your continuous support.

As you know, "RoHS Compliant" have been in force since July 2006 in EU market.

In this connection, about our customer that we deliver the product, they request the high-accuracy data as a objective evidence regularly to certify the substance of each part of product which shall not exceed the threshold value with RoHS compliant.

Furthermore, there is an increasing need for the halogen free,

we are requested to submit the high-accuracy analysis data for halogen same as RoHS Compliant.

Therefore, we have to confirm the product(part) which was observed at RoHS Compliant and to meet the our customer's request, we would like to request you to submit the high-accurate analysis data as below.

Please understand the intention of our company's request. We would appreciate it if you could support and cooperate with us.

Description

■Regarding high-accuracy analysis data. (Quantitative analysis)**1. Chemical substance for analysis**

- ①Cadmium (Cd) ②Lead (Pb) ③Hexavalent chromium (Cr6+) ④Mercury (Hg)
⑤Specific brominated flame retardants (PBB/PBDE)*1 ⑥Chlorine (Cl)*1 ⑦Bromine (Br)*1

*1 In case of containing resin material, it is necessary to analyze the organic part that is compound material.

2. Terms of analysis organization that are chosen.

- 1)The analysis organization which gained ISO17025 certification.
Note)Include IEC62321 standard.
2)The analysis must be carried out by another analysis organization.

3. The high-accuracy analysis of each chemical substance

1)RoHS6 substance

Note)The quantitative analysis should be compliant with IEC62321 standard.

Note)The analysis of hexavalent chromium (Cr6+) is not approved the using spot test with IEC62321 standard.

Note)There is the entry that you analyzed with IEC62321 standard.

•Cadmium (Cd), Lead (Pb), Mercury (Hg) and its compounds.

Analysis methods : Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES, ICP-OES, ICP-MS etc)
CV-Atomic fluorescence spectroscopy (AAS)

Detection limit : It should be less than or equal 5ppm.

•Hexavalent chromium (Cr6+)

Analysis methods : UV-VIS analysis, Spectrometric Method using 1,5-Diphenylcarbazide (spectrophotometer), Ion chromatography analysis

Detection limit : It should be less than or equal 5ppm.

•Specific brominated flame retardants (PBB/PBDE)

Analysis methods : High-resolution gas chromatograph, mass spectrometry (GC/MS)

Detection limit : It should be less than or equal 5ppm.

2)Chlorine (Cl), Bromine (Br)

Note)The quantitative analysis should be compliant with EN14582 standard.

Note)There is the entry that you analyzed with EN14582 standard.

Analysis methods : Ion chromatography analysis

Detection limit : It should be less than or equal 50ppm.

4. The entries of the analysis data. (Report)

Please be sure to enter of the following seven items.

(If seven items have been omitted, we have to request you to resubmit the analysis data.)

- ①The method of Pre-processing (The description of complete dissolution)
- ②The method of the measurement
- ③The name of the person who has carried out the measurements
The name of the person responsible for the measurements
The name of the organization which has carried out the measurement
- ④The date which has carried out the measurement
- ⑤The flow chart of the measuring method
- ⑥The results of the measurement (In case of N.D. (Not Detectable), you have to enter the detection limit.
- ⑦Sample photos

5. Validity period of analysis data.

The validity of analysis data shall be one year from the date that the analysis data was completed.

From the above description, Please be sure to submit the data of less than one year from the date of measurement.

Updating the validity of analysis data, we would like to request you to resubmit the analysis data which are controlled and updated by suppliers

6. About analysis of parts that are composed of two or more materials.

The parts that are composed of two or more materials such as metal and resin (organic material), we would like to request you to analyze of each part.

7. Please submit the analysis data in English.**■Deadlines for the submission.**

We will inform you later.

■Please contact the reception below for any question about the delivery address and the survey method etc.

The department which make request for the survey.

Faithfully yours,